

FLOR-GUARD™ EX

FOR USE WITH PC-5614

Technical Information Sheet

Product Description

FLOR-GUARD™ EX is a surface hardening clear coat designed for use on PC-5614 Topping or any concrete or masonry surface. It is a micro film forming hybrid inorganic Nano Lithium™ coating that hardens and seals to protect against moisture damage and staining. Provides excellent abrasion resistance and chemical protection. May be used in exterior applications as a stand alone clear coat.

Limitations

The DIAMATIC® FLOR-GUARD™ EX is designed for interior or exterior use. MVER or moisture vapor emissions rate shall not exceed 5 pounds per ASTM F-1869 or 80% RH per ASTM F-2170. The permitted MVER when used over the PC-5614 Topping shall be 10 pounds or 85% RH. Concrete substrate must be profiled to a CSP-3. The application temperature should be between 40-90 degrees F. (5-32C)

Coverage Rate

The FLOR-GUARD™ EX will cover approx. 350-450 square feet per gallon. Allow 30-60 minutes of drying time between coats. Surface must be tack free before additional applications.

Equipment

FLOR-GUARD™ EX: Pump type sprayer, micro-fiber pad with applicator, personal safety equipment.

Surface Preparation

The surface of the concrete should be processed in accordance with the DIAMATIC PC-5614 Specification or our standard specification for polished concrete. After the final resin polishing step has been completed the surface should be thoroughly cleaned and burnished prior to the application.

Packaging and Shelf Life

The DIAMATIC FLOR-GUARD™ EX is available in 5 gallon pails, 55 gallon drums and 275 gallon totes. The shelf life when stored properly indoors is 6 months.

Chemical and Stain Resistance

The DIAMATIC FLOR-GUARD EX shows excellent stain resistance under exposure to the following chemicals.

Scale:

- 0 = No change in stain, very visible
- 5 = Stain lighter but still visible
- 10 = Stain completely removed, no visible signs remaining

	30 min	1 Hr	24Hr
Balsamic Vinegar	10	10	8
Red Wine	10	10	9
Motor Oil	10	10	10
Transmission Fluid	10	10	10
Skydrol	10	10	6

Application

The application temperature range should be between 40-90 degrees F (5-32 C).

Thoroughly clean the surface after the last resin bonded diamond pass has been completed to remove any dust or particles from the surface. Burnish the surface using a DIAMATIC FLOR-GRIT PAD, using the same grit as the last diamond pass. Mix the FLOR-GUARD EX by shaking the pail before using. Spray an even coat over the surface at the rate of 350-450 square feet per gallon, the amount will vary depending on the surface porosity. Follow the spray application with a micro-fiber mop to remove any puddles or excess material, (be sure to pre-wet the micro-fiber mop). Allow the material to dry for 30-60 minutes before applying a second coat. If FLOR-FINISH is being used as a top coat then be sure the surface is tack free before the application. Subsequent coats should be burnished to produce a stain resistant surface. Refer to the documentation for the application of FLOR-FINISH.

Maintenance

Restrict using water on the surface for 72 hours after initial the installation. The surface should not be cleaned using a string mop for 60 days to avoid streaking. Avoid using mats or treated coverings for a minimum of 14 days to allow the finish to fully cure. DO NOT USE cleaners that are acidic or have citrus (de-limonene) or butyl compounds. Although the ULTRAFLOOR® DIAMATIC Polished Concrete System is chemical and stain resistant, the application of these high acid cleaners may etch the surface and cause a residual stain. Regular maintenance and cleaning will help prolong surface shine. In most installations water is sufficient for cleaning, or DIAMATIC FLOR-CLEAN may be used where required.

Safety

See Material Safety Data Sheet (MSDS). This document does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this document to establish appropriate safety and health practices and to determine the applicability of regulatory limitations prior to use. Dispose of any unused materials in accordance with Federal, State and Local regulations. This product is a water borne low emitting VOC material and poses no significant health hazards. Safety glasses and latex gloves should be worn during the application. Keep out of the reach of children.